CONDUIT AND CABLE SCHEDULE — STAGE I

CONDUIT DESIGNATION	CIRCUIT No.	FROM	TO	SERVICE	CONDUIT NUMBER OF SETS	CONDUIT SIZE	CABLE (PER CDT.) OR BUSWAY NUMBER & SIZE	CABLE (PER CDT.) OR BUSWAY TYPE	REMARKS
A-5	A-5	EXIST. ATS-75A5	150KVA EMERG. TRANSFORMER VIA DISC. SW.	480V	1	2"	3 # 4/0	XHHW-2	
							1 # 2	GND.	
E-L75A	-	150KVA EMERG. TRANSFORMER	BKR #EM-L75C	208/120V	1	3 1/2"	4-500MCM	XHHW-2	
							1 # 1/0	GND.	
	-	BKR #EM-L75C	SPLICE BOX	208/120V	1	3 1/2"	4-500MCM	XHHW-2	SEE ONE LINE DIAGRAM & PLAN, DWG. #E-94
							1 # 1/0	GND.	
	-	SPLICE BOX	PANEL #E-75A	208/120V	1	3 1/2"	4-500MCM	XHHW-2	
							1 # 1/0	GND.	
	-	SPLICE BOX	EXIST. CABLE TAP BOX	208/120V	1	3 1/2"	4-500MCM	XHHW-2	
							1 # 1/0	GND.	
L-5-TEMP	L-5	EXIST. SWGR. BUS "L"	P.B. #9	480V	1	3 1/2"	3-500MCM	XHHW-2	
							1 # 1/0	GND.	
R-7-TEMP	R-7	EXIST. SWGR. BUS "R"	PANEL #DP-75N	480/277V	1	3 1/2"	4-500MCM	XHHW-2	
							1 # 1/0	GND.	
DP-75N-11	11	PANEL #DP-75N	COMB. STARTER	480V	1	3/4"	3 # 12	XHHW-2	SEE NOTE #4
							1 # 12	GND.	
		COMB. STARTER	MOTOR E-75-21	480V	1	3/4"	3 # 12	XHHW-2	
							1 # 12	GND.	
DP-75N-12	12	PANEL #DP-75N	STARTER CABINET	480V	1	3/4"	3 # 12	XHHW-2	
							1 # 12	GND.	
		STARTER CABINET	MOTOR ACS-75N	480V	1	3/4"	3 # 12	XHHW-2	SEE ONE LINE DIAGRAM ON THIS DWG. AND DWG. #E-38, PLAN.
							1 # 12	GND.	
DP-75N-8	8	PANEL #DP-75N	COMB. STARTER	480V	1	3/4"	3 # 12	XHHW-2	
							1 # 12	GND.	
		COMB. STARTER	MOTOR FP-75-1-1	480V	1	3/4"	3 # 12	XHHW-2	
							1 # 12	GND.	
DP-75N-14	14	PANEL #DP-75N	STARTER CABINET	480V	1	2"	3 # 3/0	XHHW-2	
							1 # 3	GND.	
		STARTER CABINET	MOTOR ACS-75-1	480V	1	2"	3 # 3/0	XHHW-2	
							1 # 3	GND.	
DP-75N-9	9	PANEL #DP-75N	TR-LV-75N	480V	1	1"	3 # 6	XHHW-2	
							1 # 10	GND.	
DP-75N-10	10	PANEL #DP-75N	PANEL #LP-75N (EXIST.)	480/277V	1	2"	4 # 3/0	XHHW-2	
							1 # 4	GND.	
LV-75N		TR-LV-75N	PANEL #LV-75N	208/120V	1	1 1/2"	4 # 1	XHHW-2	
							1 # 6	GND.	
SR-8	R-8 SOUTH	P.B. #1	P.B. #X	480V	1	3 1/2"	3-500MCM	XHHW-2	
							1 # 1/0	GND.	
		P.B. #X	ATS-PONYA 70th FL.	480V	1	3 1/2"	3-500MCM	XHHW-2	SEE DIAGRAM "A" & PLAN, DWG. #E-35
							1 # 1/0	GND.	
A-2-TEMP.	A-2	PANEL #EPC-75A	ATS-75NL	480V	2	3 1/2"	3-500MCM	XHHW-2	USE FLEXIBLE CDT. FOR TEMPORARY RUN. SEE DIAGRAM "A" ON THIS DWG.
							1 # 2/0	GND.	
R-9a	-	A.T.S. PONYA	P.B.#3 VIA P.B.#1	480V	1	3 1/2"	3-500MCM	XHHW-2	SEE DIAGRAM "A" & PLAN, DWG. #E-35
							1 # 1/0	GND.	

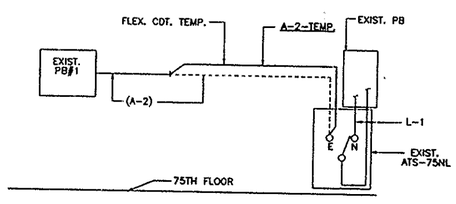
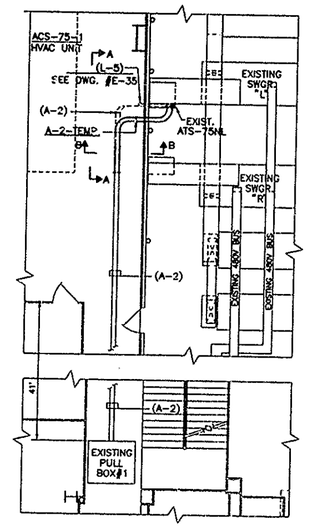


DIAGRAM "A"
RELOCATION OF FDR A-2
(FOR SEQUENCE OF INSTALLATION, SEE DWG. #E-35)



PART PLAN—75th FL.—SS-75N
RELOCATION OF FDR A-2

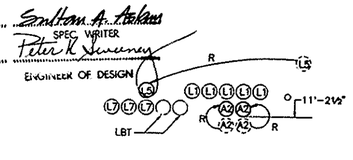
I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF ONE OF THE CONTRACT DRAWINGS CONSTITUTING PART OF CONTRACT NO. WTC-802.071 AS THE SAME EXISTED AT THE TIME THE SAID CONTRACT WAS EXECUTED BY THE PARTIES.

DATE 6/21/95 Santhan A. Atekam SPEC. WRITER

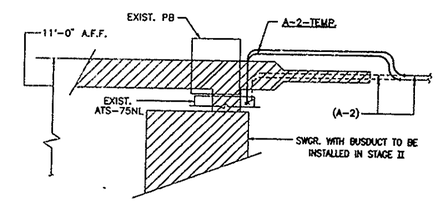
DATE 3/15/95 Peter K. Sweeney ENGINEER OF DESIGN

NOTES

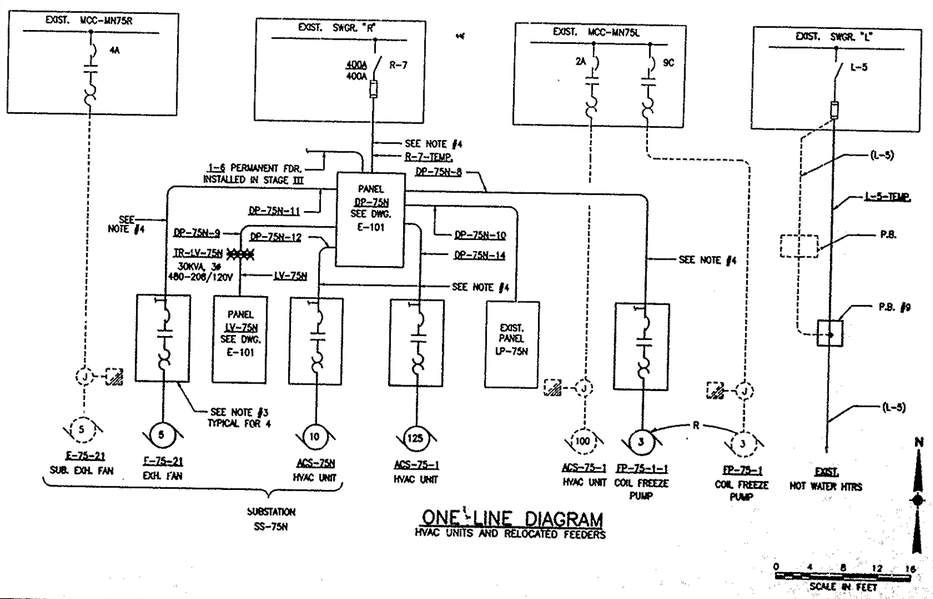
1. FOR LEGEND SEE DWG. #E-1, FOR GENERAL NOTES, ABBREVIATIONS AND LIGHTING FIXTURE SCHEDULE SEE DWG. #E-2.
2. FOR TYPICAL SUBSTATION STAGE I SEQUENCE OF INSTALLATION SEE DWG. #E-4
3. FOR HVAC CONTROL WIRING DIAGRAM & DETAILS SEE DWG. #E-108.
4. IN STAGE I, TEMPORARY FEEDER R-7-TEMP., SHALL SUPPLY POWER TO PNL. DP-75N WITH ONLY CKT'S. DP-75N-8,11,12 AND 14 CONNECTED. IN STAGE III, AFTER FEEDER R-7-TEMP. IS REMOVED AND REPLACED BY FEEDER 1-6 CONNECT OTHER FEEDERS TO PNL. DP-75N.



SECTION B-B
NOT TO SCALE



SECTION A-A
NOT TO SCALE



ONE LINE DIAGRAM
HVAC UNITS AND RELOCATED FEEDERS

Sheet 123 of 224

THE PORT AUTHORITY OF NY & NJ

Peter K. Sweeney
ENGINEERING PROGRAM MANAGER
WORLD TRADE CENTER

CHIEF ELECTRICAL ENGINEER

Engineering Department
Design Divisions

The World Trade Center
Electrical/HVAC Upgrade Program

Title
TOWER ONE AND TWO LOW VOLTAGE SUBSTATIONS CONSTRUCTION AND INSTALLATION

ELECTRICAL

SUBSTATION SS-75N STAGE I ONE LINE DIAGRAM CONDUIT AND CABLE SCHEDULE

No.	Date	Revision	Approved

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.

ROYZMAN FISCHER — Designed by
ROYZMAN — Drawn by
A.E. — Checked by

Date 5-1-95 Scale AS NOTED

Contract Number WTC 802.071
Drawing Number E-37

PA-SHT REV 5

FILE NAME: 802.071E37 APR. 13, 1995